

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P573596

Luminaire Tested: **ARCH-S-PA2-90-827-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573596
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-19)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-90-827-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 910mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9404 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

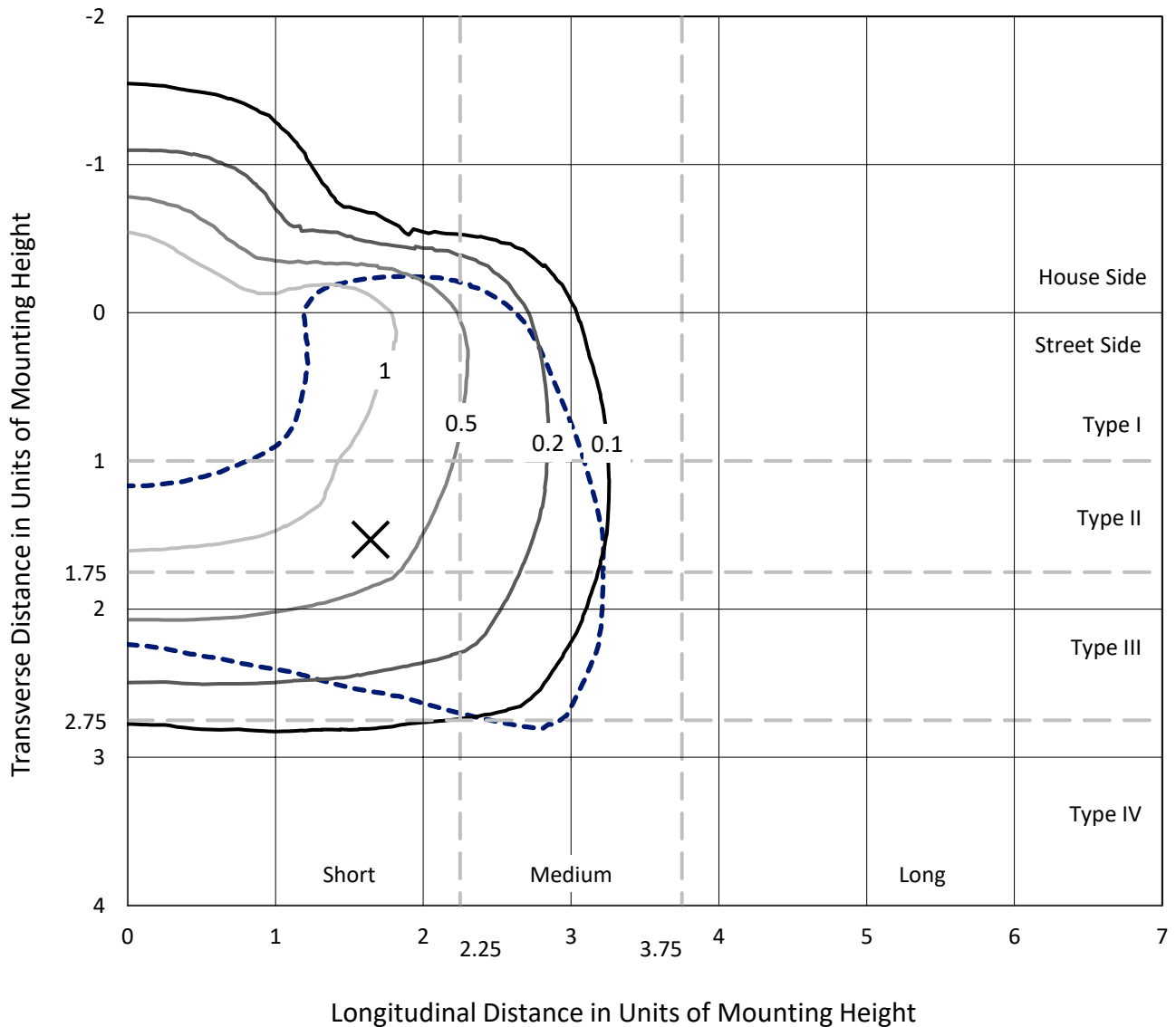
Input Watts (W): 92.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

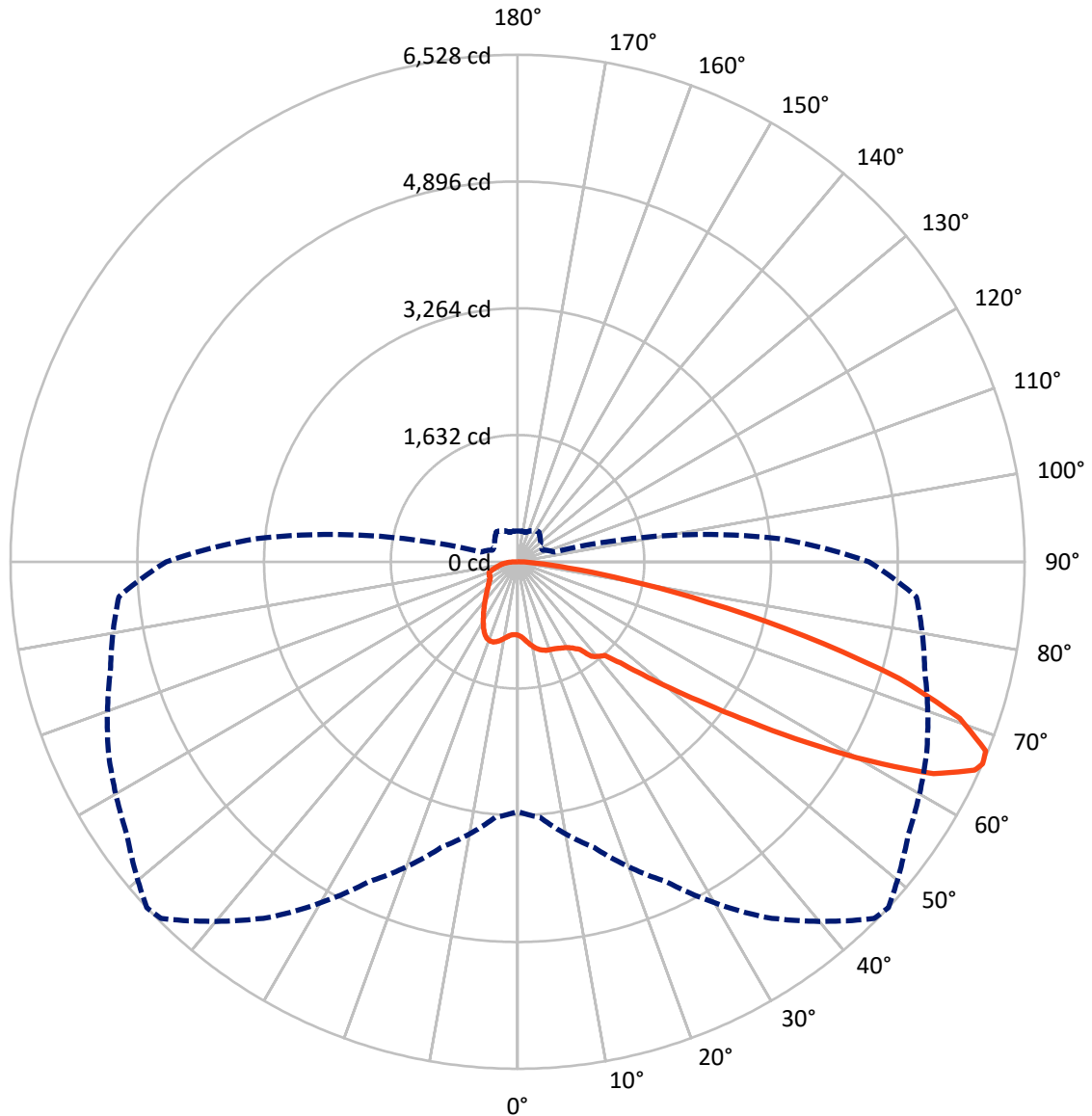
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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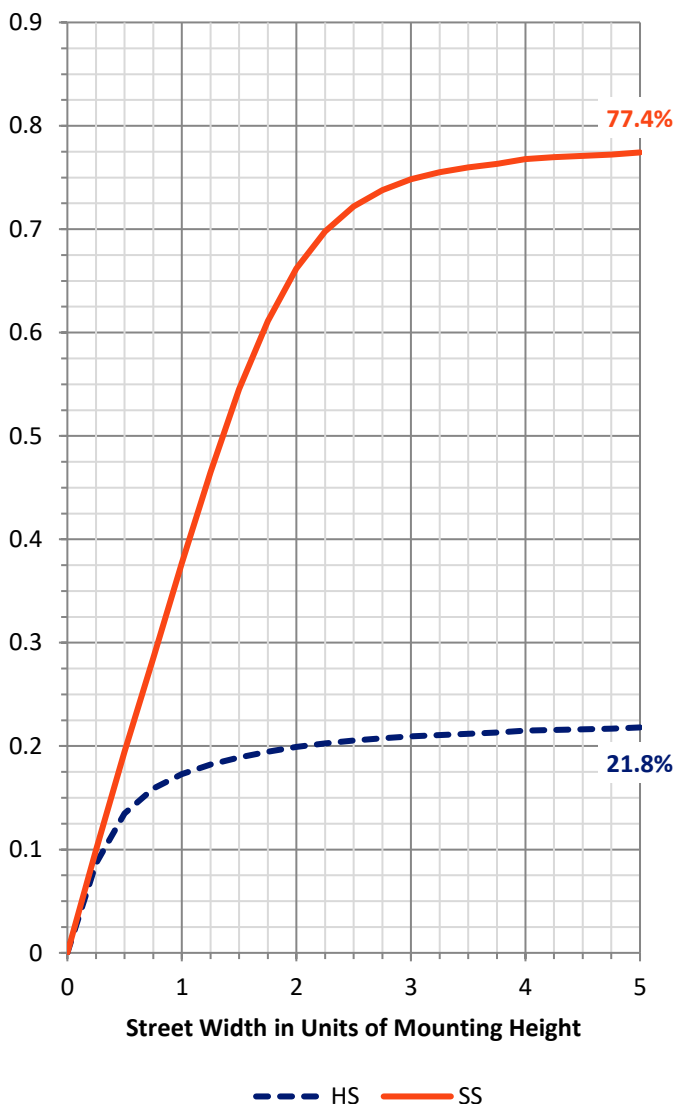
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2090.8	0.0	2090.8
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	7313.2	0.0	7313.2
	% Fixture	77.8	0.0	77.8
Total	Lumens	9404.0	0.0	9404.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.2	1.0
10°-20°	315.6	3.4
20°-30°	526.4	5.6
30°-40°	764.5	8.1
40°-50°	1169.1	12.4
50°-60°	2210.0	23.5
60°-70°	2855.6	30.4
70°-80°	1283.6	13.6
80°-90°	183.1	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9404.0	100.0
0°-180°	9404.0	100.0

Coefficient of Utilization

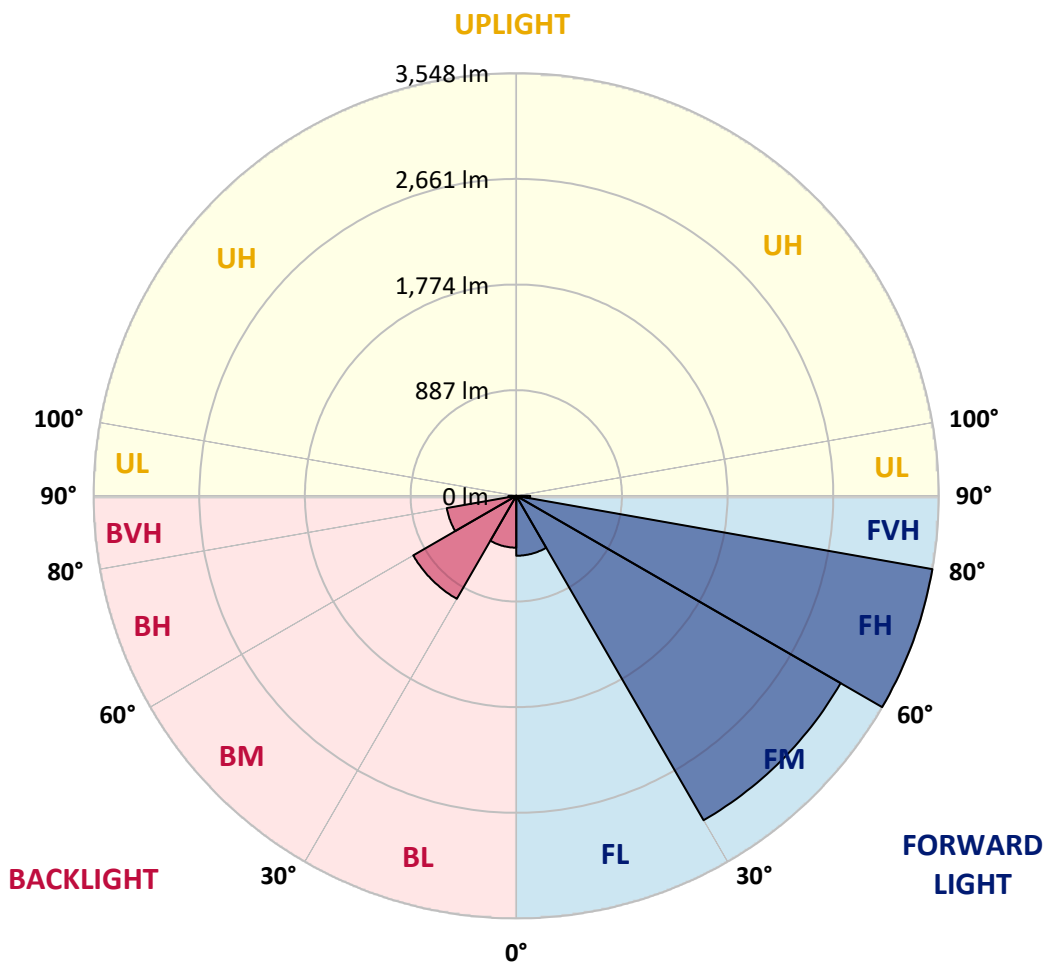


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	503.1	5.4			
FM (30°-60°)	3144.9	33.4			
FH (60°-80°)	3547.5	37.7			G2/5000
FVH (80°-90°)	117.6	1.3			G2/225
BL (0°-30°)	435.1	4.6	B1/500		
BM (30°-60°)	998.7	10.6	B1/1000		
BH (60°-80°)	591.6	6.3	B2/1000		G2/1000
BVH (80°-90°)	65.4	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	945.4	945.4	945.4	945.4	945.4	945.4	945.4	945.4	945.4	945.4	945.4
2.5°	999.0	991.4	986.3	983.7	978.6	968.4	968.4	965.8	955.6	950.5	947.9
5°	1078.3	1073.1	1060.4	1050.1	1034.8	1014.4	1011.8	996.5	976.0	960.7	950.5
7.5°	1154.9	1149.8	1137.0	1121.7	1096.1	1070.6	1062.9	1042.5	1009.3	986.3	968.4
10°	1221.3	1213.7	1198.3	1177.9	1149.8	1121.7	1114.0	1091.0	1057.8	1024.6	993.9
12.5°	1264.8	1259.7	1241.8	1216.2	1185.6	1157.5	1152.4	1131.9	1098.7	1062.9	1024.6
15°	1285.2	1282.7	1262.2	1236.7	1206.0	1183.0	1180.5	1162.6	1134.5	1098.7	1055.3
17.5°	1280.1	1277.6	1259.7	1234.1	1211.1	1198.3	1198.3	1185.6	1162.6	1131.9	1085.9
20°	1254.6	1254.6	1239.2	1221.3	1208.6	1206.0	1206.0	1203.5	1188.1	1162.6	1116.6
22.5°	1229.0	1229.0	1218.8	1206.0	1203.5	1213.7	1216.2	1221.3	1216.2	1195.8	1154.9
25°	1234.1	1231.6	1218.8	1203.5	1206.0	1229.0	1234.1	1246.9	1244.3	1229.0	1193.2
27.5°	1290.3	1287.8	1254.6	1223.9	1221.3	1249.4	1254.6	1272.4	1272.4	1259.7	1236.7
30°	1430.9	1436.0	1374.6	1298.0	1259.7	1277.6	1282.7	1303.1	1313.3	1318.4	1300.5
32.5°	1645.5	1637.8	1545.8	1420.6	1336.3	1318.4	1326.1	1344.0	1379.8	1390.0	1346.5
35°	1862.7	1867.8	1778.4	1619.9	1459.0	1392.5	1387.4	1413.0	1466.6	1420.6	1344.0
37.5°	2064.5	2056.9	1952.1	1780.9	1619.9	1543.3	1545.8	1535.6	1489.6	1397.6	1361.9
40°	2284.3	2263.8	2176.9	1957.2	1752.8	1625.0	1602.0	1515.2	1476.8	1438.5	1433.4
42.5°	2501.4	2504.0	2432.5	2215.3	1911.2	1683.8	1648.0	1558.6	1584.2	1576.5	1571.4
45°	2774.8	2774.8	2703.3	2501.4	2161.6	1903.6	1855.0	1747.7	1788.6	1819.2	1880.6
47.5°	3025.2	3009.9	2989.5	2818.3	2488.7	2189.7	2169.3	2046.6	2154.0	2248.5	2373.7
50°	3291.0	3270.5	3257.8	3153.0	2917.9	2624.1	2562.8	2435.0	2670.1	2846.4	3078.9
52.5°	3704.9	3669.1	3602.7	3543.9	3451.9	3112.1	3035.5	2940.9	3245.0	3467.3	3942.5
55°	4077.9	4047.3	3983.4	4026.8	4014.1	3704.9	3638.5	3549.0	3878.6	4149.5	4693.7
57.5°	4215.9	4218.5	4305.3	4537.9	4660.5	4481.7	4387.1	4297.7	4576.2	4701.4	5192.0
60°	4279.8	4272.1	4497.0	4875.1	5273.7	5327.4	5207.3	5023.3	5128.1	5135.8	5613.6
62.5°	4141.8	4162.3	4471.4	5015.7	5641.7	6027.5	6009.6	5687.7	5590.6	5483.3	5726.0
65°	3618.0	3646.1	4100.9	4765.3	5700.4	6451.6	6469.5	6093.9	5823.1	5524.1	5406.6
66°	3219.4	3303.7	3809.7	4548.1	5593.1	6495.1	6528.3	6137.4	5812.9	5427.0	5153.6
67.5°	2700.7	2695.6	3260.3	4070.3	5294.2	6456.7	6500.2	6076.0	5674.9	5140.9	4647.7
70°	1653.2	1704.3	2189.7	3038.0	4382.0	5978.9	6037.7	5644.2	5079.5	4353.9	3436.6
72.5°	848.3	932.6	1252.0	1975.1	3181.1	4941.6	5140.9	4739.7	4152.0	3150.4	2097.7
75°	449.7	444.6	590.2	1070.6	2031.3	3707.5	3812.2	3554.1	2869.4	1878.0	1068.0
77.5°	240.2	253.0	309.2	549.3	1116.6	2368.6	2501.4	2291.9	1635.3	960.7	511.0
80°	163.5	171.2	209.5	309.2	605.6	1285.2	1407.9	1221.3	856.0	454.8	240.2
82.5°	104.8	109.9	143.1	191.6	362.8	623.4	656.7	626.0	419.0	258.1	145.6
85°	63.9	66.4	86.9	122.6	227.4	253.0	263.2	265.7	235.1	168.6	79.2
87.5°	30.7	33.2	48.5	61.3	107.3	92.0	84.3	86.9	130.3	99.6	35.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	945.4	945.4	945.4	945.4	945.4	945.4	945.4	945.4	945.4	945.4	945.4
2.5°	945.4	942.8	937.7	935.2	937.7	937.7	937.7	940.3	945.4	945.4	947.9
5°	945.4	940.3	935.2	935.2	940.3	945.4	950.5	960.7	965.8	968.4	968.4
7.5°	958.2	953.1	947.9	947.9	955.6	965.8	976.0	988.8	1001.6	1011.8	1011.8
10°	983.7	976.0	970.9	973.5	986.3	999.0	1011.8	1027.2	1039.9	1052.7	1052.7
12.5°	1011.8	1004.2	996.5	1001.6	1019.5	1034.8	1047.6	1055.3	1068.0	1078.3	1078.3
15°	1039.9	1027.2	1024.6	1034.8	1052.7	1062.9	1068.0	1068.0	1073.1	1083.4	1083.4
17.5°	1070.6	1057.8	1055.3	1065.5	1080.8	1080.8	1070.6	1062.9	1060.4	1068.0	1070.6
20°	1101.2	1088.5	1088.5	1096.1	1093.6	1075.7	1057.8	1045.0	1034.8	1042.5	1045.0
22.5°	1139.6	1126.8	1121.7	1111.5	1088.5	1052.7	1024.6	1009.3	1001.6	1006.7	1011.8
25°	1177.9	1167.7	1154.9	1119.1	1065.5	1009.3	973.5	960.7	963.3	973.5	978.6
27.5°	1226.4	1221.3	1190.7	1114.0	1024.6	947.9	912.2	909.6	919.8	935.2	942.8
30°	1285.2	1277.6	1223.9	1098.7	968.4	876.4	850.8	856.0	871.3	884.1	891.7
32.5°	1326.1	1321.0	1239.2	1062.9	899.4	812.5	792.1	792.1	799.7	817.6	825.3
35°	1338.9	1359.3	1249.4	1009.3	817.6	756.3	735.9	723.1	723.1	738.4	743.5
37.5°	1382.3	1428.3	1254.6	937.7	751.2	705.2	679.7	656.7	649.0	646.4	646.4
40°	1482.0	1535.6	1252.0	845.7	687.3	654.1	623.4	597.9	577.5	549.3	551.9
42.5°	1655.7	1696.6	1244.3	748.6	631.1	608.1	577.5	546.8	513.6	482.9	480.4
45°	1990.4	1929.1	1223.9	664.3	580.0	567.2	539.1	503.4	462.5	434.4	434.4
47.5°	2519.3	2350.7	1211.1	585.1	534.0	531.5	505.9	467.6	426.7	406.3	403.7
50°	3245.0	2933.3	1231.6	528.9	493.1	500.8	480.4	444.6	411.4	393.5	390.9
52.5°	4077.9	3559.3	1254.6	493.1	462.5	477.8	467.6	434.4	401.2	385.8	383.3
55°	4721.8	4067.7	1221.3	459.9	431.8	454.8	454.8	424.1	396.0	380.7	380.7
57.5°	5174.1	4272.1	1106.4	429.3	406.3	434.4	442.0	419.0	393.5	388.4	388.4
60°	5368.3	4261.9	904.5	401.2	388.4	413.9	434.4	413.9	398.6	411.4	413.9
62.5°	5263.5	4039.6	702.7	380.7	375.6	408.8	442.0	434.4	416.5	426.7	431.8
65°	4790.8	3648.7	528.9	362.8	360.3	411.4	462.5	447.1	403.7	406.3	408.8
66°	4525.1	3385.5	485.5	357.7	355.2	413.9	472.7	442.0	393.5	398.6	396.0
67.5°	3957.9	2971.6	426.7	347.5	344.9	413.9	485.5	431.8	380.7	388.4	380.7
70°	2902.6	2102.8	365.4	334.7	329.6	406.3	482.9	411.4	352.6	347.5	334.7
72.5°	1683.8	1272.4	324.5	319.4	306.6	357.7	452.3	378.2	321.9	306.6	293.8
75°	827.9	646.4	288.7	301.5	268.3	314.3	408.8	350.0	296.4	276.0	268.3
77.5°	380.7	327.1	260.6	276.0	237.6	270.8	373.0	319.4	263.2	232.5	224.8
80°	207.0	204.4	219.7	230.0	199.3	237.6	329.6	278.5	222.3	189.1	178.9
82.5°	127.8	130.3	161.0	176.3	155.9	207.0	291.3	232.5	168.6	132.9	135.4
85°	66.4	74.1	107.3	117.5	102.2	153.3	219.7	155.9	94.5	69.0	69.0
87.5°	23.0	30.7	53.7	63.9	56.2	92.0	138.0	74.1	20.4	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)